

Pittier H. ✓



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION.

Washington, U.S.A.

REGISTER NUMBER	2509.18
REC'D AUG 1 1911	
SMITHSONIAN INSTITUTION	REF. TO

UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
ASTROPHYSICAL OBSERVATORY
INTERNATIONAL CATALOGUE OF
SCIENTIFIC LITERATURE

July 24th 1911.

To the Secretary,

Smithsonian Institution

Washington D.C.

Sir:

As announced in my last letter I realized my projected trip up the Trinidad R. and its main affluent the Givi, with results which, although not so brilliant as I had hoped, are nevertheless giving me some satisfaction because of the relative ^{high} percentage of new things collected. But I did not collect as many species as I did around Nombre de Dios, and the expense was much higher than in that former expedition. Mr Saville, of the Canal Commission, kindly offered to make for me all the necessary arrangements, and I was more or less bound to accept his aid, as he has a better knowledge of the conditions on the river. I found however, that we could have managed with a single canoe and two men, instead of two canoes and four men, and other details could have been simplified so as to reduce the expense. As a general rule, I have found that I

can manage better all by myself, only there are cases where it is convenient to accept suggestions and help.

We went up for about 30 miles, 10 of which in the newly formed swamps above Gatun, and 10 more between high banks and flat forests where the most abundant tree is *Prioria copaigera* Gris., one of the surest indicators of bad lands in this region. Farther up we found gravel beaches, bordering ^{on} better soils, with rubber trees (Castilla) and a great variety of timber, but we did not reach the first outcrops of the rocky understructure, and had to turn back just when the country was becoming interesting.

With this mail I send 3 packages of herbarium specimens and one small parcel of botanical samples in alcohol. As to funds, I had about \$30 left this morning and had to invest \$15 in an Hotel book. I hope you have made a remittance as requested by my note of June 20th, because without funds I shall not be able to undertake the projected expedition to the San Blas country, for the purpose of which I should be at Nombre de Dios by July 31st.

Respectfully

H. Pittier

Major sent to
June 13 1895

CARTA
de la
REPÚBLICA DE PANAMÁ

1910-1911

1:100,000

1:100,000



1910-11

1890-1903

To be visited before returning
to Washington, if possible.

Da. True,

The last two pages
of this letter to Mr.
Pitts ought to set
him straight, I think.
Would you suggest
any changes?

Max

8 July 1911

Noted by
J. J. M.
J. J. M.

Pittier H. ✓

7483.18



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SCIENTIFIC LITERATURE

W
Culebra, June 28th 1911.

To the Secretary, Smithsonian Institution

Washington D.C.

Dear Sir:

I returned from Costa Rica on June 22^d, after Mr McDonald had concluded his preliminary examination of the tertiary and quaternary formations around Port Limon. I only spent a few days with him, to show him the points where I made my collection of fossils now in Washington, and to introduce him to the people who could best help him. After that, I went to the interior of Costa Rica with the object of collecting a number of species very desirable for the Nat. Herbarium, and among them several species of the genus *Sapranus*, the existence of which was known only on fragmentary information. The several trips I made with such object in view were all successful and the few, but very

rare species collected will be a very valuable addition to our herbarium.

After concluding his work on the Atlantic side, Mr McDonald was invited to visit the gold mines on the Gulf of Nicoya and the fossiliferous outcrops uncovered lately in the building of the C. R. Pacific Railway. The occasion was unique for him and I advised him to profit by it. But in this I could not be of any help to him and I felt anxious to resume my work here. This will explain why I did not wait for him.

Referring to your kind note of May 25th, I beg to state that my accounts agree with the statement thereby given, with the difference that Mr Maxon contributed to our joint expenses, if I am not mistaken, with only \$200. On the other hand, I remember his telling me that he had received \$250. So I have written to him asking him to explain about that matter, which will then be satisfactorily settled.

My expenses for the first semester have been very heavy on account of the extra expenditure of Mr Maxon's coming and the Chiriqui expedition. For the future, I think that notwithstanding the increased difficulties in travel, probably with a corresponding increase in expenses, the general expense will be less. I have now little over \$100 left, and if you think it advisable, I beg you to have a check

for \$200 sent at the first opportunity.

I have been at first under great fear not to be able to go on with my work on account of the extraordinary dampness. The specimens of my last expedition up the Chagres River and more especially those collected on Taboga Island are all black, many half rotten, and certainly the worst of the set. On my return from Costa Rica, however, I found that under the supervision of the Hon. H. H. Rousseau, a very adequate drying room had been built to my special intention. It consists of a closet about 8' x 4' length & width, and 7' high. The interior is provided with shelves in wire netting, to the measure of my drying paper, and with two 32 electric ^{light} bulbs placed near the floor, and giving just the desirable temperature to dry the plants quickly, without their losing their color and shape. So I am no longer worried about the question of drying, as long as my work is confined to the Canal Zone. When I go for a longer expedition, I shall have to make other arrangements.

Col. Goethals has asked me to help starting certain experiments the object of which is to cover the talus of the canal with grass, so as to prevent the superficial washing by the heavy rains. On account of the kindness displayed toward us all by the Fthman

authorities, I have thought it my duty to comply with the above request and I have no doubt you will approve of it.

July 7 Received
By this same mail, I forward 6 packages, 5 of them containing the specimens of my last botanical collections and one miscellaneous objects: fruits, flowers, insects, etc.

Very respectfully

H. Pittier.

Statement \$4400. for 12 months.

A. Fuller, in arrear with Litchman's Suits

1910 Dec	To Cash	4.50 -	
1911 Jan	" "	2.00 -	
July	" "	2.00 -	
Apr	" "	2.00 -	
	" Wm R. Maxon transfer	2.50 -	
1911 Feb	By Expense		132.20
May	" "		565.90
	Balance due F. I.		401.90
		1100.00	1100.00
To Balance		401.90	

W.M.
JUL 7 - 1911

H.M. MAR 9 1911
SMITHSONIAN INSTITUTION

MEMORANDUM:

MAR 9 - 1911, 191

Miss Munroe

Please make an
order for 2 copies
of Mas. Bells paper
for Prof. Pittier,
who will be asked
in the reply to
note corrections.

Wood

S.I. ORDER MADE

attached

H.M. MAR 9 1911

SMITHSONIAN INSTITUTION

MEMORANDUM

July 7, 1911

To Mr. Graylar:

- ✓ 1. Please notify A. C. Brown of shipment. (Pkg. rec'd & will be sent to Dr. Rose)
- ✓ 2. Advise me as to financial matter mentioned herein.
- ✓ 3. The Secretary may wish to read this letter.

JCO

(See pp. 3 and 4)
WPA

Copy

July 7, 1911.

Mr. H. Pittier,

P. O. Box 47,

Culebra, Canal Zone, Isthmus of Panama.

Dear Mr. Pittier:

Your letters of June 22 and 28 and your postal of June 24 together with your notebook have all been received. Upon receipt of your last letter I at once turned in copy for the new labels, and can promise you that the plants will be mounted as soon as the labels can be prepared. The Piperaceae out of your present sending of six packages will be mounted and included with the others to go to de Candolle. The six parcels of plants referred to have not been received. The Myriapods will go to Mr. Cook.

There were received today from McQueen fourteen copies of Plantas Usuales. I will forward them today according to your directions.

The requisition for needles, scissors, and scalpel goes in today and I will see that the articles are forwarded to you promptly.

Mr. H. Pittier,

-2-

I am asking that five copies of Mrs. Bell's paper on Panama be sent to you.

Dr. Rose was much interested in your remarks about ~~Costa~~ Rican cacti and will, I think, write to Brade regarding them. He has no further data regarding ~~the~~ Panama Nopalea.

Upon consulting the Biologia, I find that Sutton Hayes collected Cavanillesia platanifolia in Panama, his No. 23. The specimens are said to have come from "Paraiso and Empire Railway—stations". Colombia is also mentioned for these species.

As to the films, I would suggest the advisability of ordering one-half dozen rolls for your use, to be put up in tin tubes at the factory as you suggest. If you will let me know how many you wish put up in this way and will tell me exactly what kind you want I will put in your requisition. I would suggest your sending an empty cover, in order that there may be no error.

I will have a new lot of prints made from your Panama films and will send them on as soon as they come to me.

Mr. H. Pittier,

-3-

I am sorry that there is any confusion in your mind regarding the \$250 ^{allotment} made out in two checks to me upon my departure for Panama. The smaller check, for \$50, was cashed here, as you doubtless know, and such portion of it as was not expended by me, either on my way to Panama or in the Canal Zone, was turned into our general fund along with the \$200 from the other check, which, you will recall, was cashed at Empire. The supplementary account "B" which I turned in to you, aggregating about \$50 and embracing expenses incurred by me mostly on separate trips, was not wholly expended out of this ^{particular} \$50 referred to, the latter third of the ^{\$30.00} expenditures being made, in fact, from April 5th to 12th, long after the balance of my \$50 had disappeared during our trip to Chiriqui.
 (in expenses!)

In going over your account with Mr. Adama this morning, however, and comparing it with my original statement of expenditures to you, we found that in transcribing my account you had omitted some thirteen entries, as follows:

Apr. 5, Colon - carriage with baggage, station to police station, to wharf	\$.35
" 5, Colon - baggage transfer, wharf to Pier 13 and steamer	.25

Mr. H. Pittier,

-4-

Apr. 5,	Porto Bello	- baggage transfer, dock	
	to hotel		.25
" 5,	Porto Bello	- boat hire	.50
" 6,	" "	" "	.50
" 6,	" "	- services of guide	1.00
" 7,	" "	- " " "	1.00
" 7,	" "	- boat hire	.50
" 8,	" "	- " "	.50
" 8,	" "	- tip to waiter	.50
" 8,	" "	- tip to hotel servant and	
		baggage to wharf	.50
" 8,	Colon	- baggage, dock to rwy. sta.	.35
" 12,	")-	- carriage hire	.30
		Total	<u>6.50</u>

These aggregate \$6.50 which amount, I think, Mr. Adams intends to add to your next expense account. In other words, you listed only \$23.45 of expenses taken from my supplementary account ^{whereas} ~~thereas~~ you should have listed \$29.95, the difference being \$6.50. I want to repeat again that the difference between \$50 and \$29.95 was turned into the general fund and expended on precisely the same basis as our other allotments.

I suppose I must have failed to put down expenditures at the time they were incurred, to a certain extent. However, the trip cost me personally about \$55, out of which I cannot account for about one-half.

Very sincerely yours,

(Signed) *W. H. H. H. H.*

*Attach to
Adams' case*

July , 1911.

For Mr. Adams:

Please have a voucher and check made for \$200
to the order of Prof. H. Pittier on account of the
Canal Survey allotment. This is requested in Prof.
Pittier's letter of June 28th.

Respectfully,

Chief Clerk.

2.
July 21 1911

Dear Dr. Pittier:

Your letter of June 28 was duly received, and we are glad to learn of the satisfactory result of your trip to Costa Rica with Mr. McDonald. The packages of botanical collections have come to hand and are now in the charge of Dr. Rose.

In relation to your accounts, it is understood that Mr. Maxon has written you and no doubt can assist in an accurate statement. The two hundred dollars asked for by you are inclosed herewith.

Possibly you have heard of the great sorrow that has come to Secretary Walcott in the death of his wife, who was a victim of a railroad wreck at Bridgeport, Connecticut, on July 11. The entire office force has been much upset ever since. Trusting that you will keep in good health, I am,

Very respectfully yours,

F. W. TRUE.

Dr. H. Pittier,
Culebra, C.Z.

Acting Secretary.

Pitts. N.



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SCIENTIFIC LITERATURE

REGISTER
NUMBER 7434.11
MAY 19 1911
REF. TO
Dr. True
Mr. Adams

Culebra Ldg. - May 10th 1911.

To the Secretary.

Smithsonian Institution

ANSWERED
MAY 23 1911

Washington D.C.

Dear Sir:

I beg to submit the inclosed account of expenses made in the course of the botanical investigation made under my supervision from February 1st to April 30th incl. This account also covers a supplementary item for December and the expenses of Mr. Maxon from January 2nd to the last. The mentioned gentleman acted as treasurer of both of our expeditions of his stay on the Volcanos, and I send him with this account by this mail, he will be able to transmit any explanation, if required to do so. However, as to expenses, I wish to say that at the Hotel, Havana, Cuba, I was in too much a hurry to ask for a receipt of my baggage and did not even note the amount. I am sure it was above \$200 and as the excess of my baggage (which I had to pay notwithstanding my business card) was for 145 \$ after deducting 150 + 25 \$ for ticket (my son and self) I assume that the charge was for 220 \$. If there is any mistake it will probably be easy to rectify it.

With reference to my room at Hotel Seville in New York, Mrs Pittier paid our full expense and took away the receipt to Europe. So I charged for that item the same amount as the one paid on my preceding stay at the same hotel. We paid 37 for our two rooms, so I expect my charge will be considered reasonable.

I arrived here in good condition, but found my quarters pulled down and unfortunately I have not been able to locate the bulk of my materials. Mr. Rousseau, Naval Engineer and one of the Commissioners, attended to my wants as to a room. I am with the greatest kindness and he is going to have a special storage closet built, so that I am not plagued in my search for things on account of the excess of humidity.

An expedition of a few days to Coligny, up the Rio de la Plata river, has just been arranged and I expect to start tomorrow morning.

Mr. E. McDonald, geologist to the U.S.G., has just called on me that Dr. Ball wishes me to accompany him to Costa Rica, and is to arrange the matter in the interim. His plans for the future may be influenced by our discussion. At this point, I beg you to kindly communicate with Dr. Ball and let me know the result. If you learn he will not go, I think that it will take me at the shortest 5 weeks to reach Mr. McDonald all the outcrops where my fossils were found. Then I would come back to Bogota for two or three weeks, a trip that is included in my program.

Respectfully

H. Pittier

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

MEMORANDUM

May 19, 1911.

To Mr. Dörsey:

I think that the portion
of this letter referring to Mr. Hall should
be copied out and sent to him, with
request that he will communicate
to the Secretary what is desired
in the matter of the fossil localities.

He

appended to

Excerpt from letter from Prof. H. Pittier, dated Culebra,
C. Z., May 10, 1911.

"Mr. D. McDonald, geologist to the I. C. C., has just informed me that Dr. Dall wishes me to accompany him to Port Limon, Costa Rica, and is to arrange the matter in Washington. As my plans for the future may be influenced by your decision on this point, I beg you to kindly communicate with Dr. Dall and to let me know the result. If you deem it desirable that I should go, I think that it will take me at the utmost five days to show Mr. McDonald all the outcrops where my fossils were collected and that I would come back to Bocas del Toro for one or two weeks, a trip that is included in my program."

Dear Dr. Dall:

What are your wishes in regard
to these fossil localities?

Charles Walcott
Secretary

SMITHSONIAN INSTITUTION

REGISTER
NUMBER

7446.1

Washington, D. C.,

RECEIVED

MAY 22 1911

1911

SMITHSONIAN
INSTITUTION

REF. TO

23 June

Dear Dr. Walcott.

It is most important that these horizons at Limon should be accurately sectioned and each fauna separately collected and labelled. This locality is the key to the geology of the whole Isthmian region as well as the Antillean Tertiary. If possible, pray let M. Pittier go.

Yours very truly

Wm. H. Dall

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM



MEMORANDUM

May 23, 1911.

To the Secretary:

In view of the circumstances of the case, I would respectfully recommend that Mr. Pittier be permitted to go to Port Limon, Costa Rica, as proposed, at the expense of the Panama allotment.

Very respectfully
J. W. True

MAY 24 1911
APPROVED

SECRETARY.

J.W.J.

May 25, 1911.

Dear Sir:

I have your letter of May 10th, and your account for expenditures from February 1st to April 30th, inclusive, has been audited in the sum of \$565.90, being one dollar in excess of the total of your account, which is accounted for by an error in addition.

For your information, I beg to give you the following statement of your account:

Debits:

December 19, 1910.....	\$250.00	
January 31, 1911.....	200.00	
February 21, ".....	200.00	
April 24, ".....	200.00	
Advance to Mr. W. R. Maxon January 13th...	<u>250.00</u>	\$1,100.00

Credits:

Expenditures to January 31st.....	\$132.20	
" " April 30th.....	<u>565.90</u>	<u>698.10</u>
Balance.....		\$401.90

It is understood from Mr. Maxon that the advance to him is to be included in your account and all disbursements by

him to be charged in your accounts.

I am glad to learn of your safe arrival, and of the courteous treatment received from Mr. Rousseau, and trust that your expedition to Alhajuela has been as successful as you could hope for.

Referring to the Port Limon trip, I write to say that it is considered important that the horizons in that locality shall be accurately sectioned and each fauna separately collected and labelled, and I therefore, am pleased to authorize you to accompany Mr. McDonald.

Wishing you continued health and success, I am,

Very respectfully yours,

CHAS. D. WALCOTT

Secretary.

Professor Henry Pittier,
Smithsonian Expedition,
Culebra,
Canal Zone.

Pittier H.

May 3, 1911.

Dear Professor Pittier:

I am sending you by today's mail a package containing the two maps of Panama, which have been mounted on cloth to fold up as you requested.

7425.12
I received word this morning from Mr. Bawden in New York that the two boxes were received from the express company and shipped on board the "Allianza", which sailed April 29th.

Very truly yours,

H. W. DORSEY

Chief Clerk.

Prof. H. Pittier,

Smithsonian Expedition,

P. O. Box 47,

Culabra, Canal Zone.

INDEXED

Pittier H.

April 25, 1911.

For Professor Pittier:

Smithsonian Order No. 2787 has today been sent to Abercrombie & Fitch, for one tent fly 8 oz. khaki U.S.A., 16 feet square, to be called for by you at their place on Saturday morning, April 29th.

Respectfully,

H. W. DORSEY

Chief Clerk.

Professor H. Pittier,

Smithsonian Panama Expedition.

Mat. Herb.



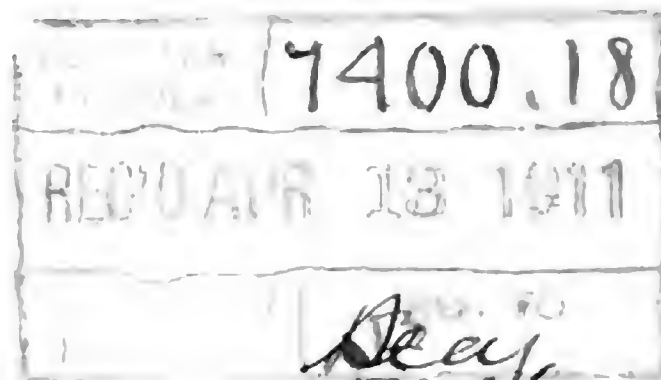
Pittier H. J.



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Culebra C. Z., April 6th 1911.

To the Secretary,

Smithsonian Institution.

Washington D.C.

Sir: I have the pleasure to report our return from Chiriqui, after a successful expedition of six weeks.

We located at El Boquete and found the middle and upper valley of the Caldera river very interesting floristically. It is in close proximity to the interoceanic divide, so that at short distances types of both the xerophilous and hygrophilous vegetation can be found. The district is wonderfully rich in Orchids, some of which are beautiful, and as Mr Maxon has made a good collection of them, we hope to have some in Washington the living specimens of many of the specific types of the Wargzewicz collection, made in the sixties (1863?) in the same region.

The forests of El Boquete are simply magnificent and I wish I could find English words to give you even a short description. They are

especially rich in Lauraceae, Cedrelaceae and Euphorbiaceae, all of partly dimensions, and also one of the dominating species is a giant elm, which I never met in other parts of Central America. Of course, it is very difficult to get botanical samples of these trees, but I have been rather successful in that line and hope to be able to fill many gaps in the U. S. Nat. Herbarium.

We ascended the Chiriqui Volcano and the Cerro de la Horqueta, which I found to be respectively 3374 and 2268^m (data subject to revision) high. The former is entirely located in the semi-arid region of the Pacific. At about 1800^m, the oaks have become the dominating element of the forest, and they remain so up to about 3000^m, although mixed still in the lower belt with a gregarious Persea very close related to the common alligator-pear. On the side we ascended, the upper limit of the oak forest is marked by the crateric ridge that surrounds the main peak on its N. Eastern flank. The inside of the ridge and the slopes of the highest peak up to about 3150^m are clad in a forest in which Myrtaceae and Ericaceae seem to predominate.

We camped at the bottom of an old crater north of the peak. March 12th at 7 am the tempe.

perature was about 31.5°F (-1.2°C); every drop of water was congealed and the ground covered with a fine white frost. That day we ascended to the summit. The volcano is absolutely extinct and the highest peak is on the northern side of the ridge corresponding to the most recent crater, where sulphur is still found and the vegetation very scarce.

We had intended to spend a few days at our upper camp and to explore the upper part of the mountain as thoroughly as possible. But on returning to the camp, we were greeted with the news that there was not a drop of water left and that a careful search of the neighboring gorges had failed in revealing a new supply of it. Under such circumstances, the only thing to do was to go home. That night we went to bed without dinner, and our imagination helping, we felt awful thirsty. Early in the morning we started without breakfast, and were glad when we found the first wild pine-apples (epiphytic Bromeliads), in the folial axils of which there is almost always a small supply of water. Our return looked as a rout (deroute) and I seriously think of having my revanche in June, as this would be, botanically speaking, a more favorable time for collecting and there will be then plenty of water.

March 17-19, we went to Cerro de la Horqueta, which is as wet as the volcano is dry, although not 10 miles distant on the opposite side (N) of the Caldera valley. Here the forest is very dense and the Lauraceae dominate up to about 2000^m, intermingled with a few oaks. The upper part of the peak is buried under a low, scrubby forest, very much mixed as to families, and fierce when it comes to cut a trail through the tangle of distorted trunks, vines and bamboos, all uniformly clad in a thick, dripping mantle of mosses and allied plants. This was a paradise for Mr. Maxon, who collected no end of rare ferns. I think we were the first people to ascend that peak, as no traces of an old trail could be discovered in the upper part of the peak.

My collection in that region consists of about 600 species, and besides I have a large amount of interesting data. I left Bogueta on March 21st and walked about 40 miles to David, passing to the village of Caldera, well known to ethnologists on account of its "Piedra pintada" (painted, i.e. carved, stone). My object in walking, despite the excessive heat, was to study as closely as possible the vegetation of the vast expanse of savannas. But I found them dry and parched, and so could see but little.

I intended to go to Remedios, an eastern district of Chiriquí, where Seemann collected many interesting things in 1848, but the connection with the steamer was uncertain, so

I had to content myself with a few short excursions, with scarce results as to my collection, around David. Meanwhile Mr Maxon, who remained at El Boquete, took a very successful, if hard, trip across the divide.

The region visited by us is interesting in many other directions. I never had seen the working and effects of atmospheric erosion better exemplified than in the savannas that surround the Chiriqui volcano on its southern side. The rain of the six months May-October disintegrate the subsoil and the violent, continuous trade wind of the dry season carry away all the loose particles, so that the ground is as clean and dustless as a billiard table, but for the stones too large to be carried away. The plains around David, covered also with savannas, seem to have been emerged very recently, as the subsoil is formed to a great depth by horizontal layers of ^{loose} sea-sand. At no great distance to the Westward, in Costa Rica, I found ^{formerly} traces of the sea waves, quite visible and unquestionable, at 200 and some meters above sea level, on the cliffs of the foot hills. And the change in the course of the Chiriqui Viejo, which flew formerly to the Golfo de Osa (Golfo Dulce), must be connected in some way with this upheaval of the coast.

Copy to
Mr. Maxon

In the ethnological line, there is still much to be

ISTHMIAN CANAL COMMISSION

DEPARTMENT OF SANITATION

ANCON HOSPITAL

OFFICE OF SUPERINTENDENT

ANCON, C. Z.

File No.

investigated in Chiriqui. At El Boquete we were shown caves dug in a low cliff along a creek, and others of a distinct character, exist in a high cliff on the opposite side of the valley. They have never been explored that I know. There are at the same place and all over Chiriqui, no end of unopened graves, and they are not of one and the same type as the one described in Mr Holmes' very interesting work on the Antiquities of Chiriqui. Among the Indians of the western part of this province the native languages are extinct, but there are wild or semi-wild tribes around Remedios, about which we know very little.

But I fear, Mr Secretary, I have been tiring you with this long, though incomplete and incoherent relation of our experiences. I will end this by telling you how pleased I was with the company and collaboration of Mr Mason, who is a thorough and enthusiastic lover of Nature and an undefatigable and very intelligent worker. He has now gone for a last collecting trip to Porto Bello; I had to stay to take care of my collections and make arrangements for our return to Washington.

I have not been able to prepare my account for February-March. Our trip was a little more expensive than I had anticipated, and I was glad to find check for \$200.

By the same mail I send:

1) 2 packages of plants

2) 1 parcel containing 12 rolls of exposed films.

These should be developed immediately and the tires kept whole, i.e. the pictures should not be cut and separated as it would be difficult for me to label them afterwards. The note on the inside of the yellow wrappers (the square cardboard box) should be kept with the film it corresponds to. I will attend to the labelling as soon as I get there.

We shall leave here on the 12th and I will stay in Washington only the time necessary to see my family off for Europe.

Respectfully yours

A. Sitter

Pittier, H.

March 1, 1911.

Dear Sir:

I am authorized to inform you that the additional supply of paper recently requested by you was shipped yesterday to New York addressed "Smithsonian Expedition, Culebra, Canal Zone, c/o Professor H. Pittier, care of Mr. H. I. Bawden, Terminal Superintendent, Panama Railroad Steamship Line, New York City", with the request to forward the same by the next steamer.

Very respectfully yours,

H. W. DORSEY

Chief Clerk.

Professor H. Pittier,

Smithsonian Expedition,

P. O. Box 47,

Culebra, Canal Zone.

J

I have the account *W.H.*

Pittier, H. ✓

ISTHMIAN CANAL COMMISSION

DEPARTMENT OF SANITATION

ANCON HOSPITAL

OFFICE OF SUPERINTENDENT

ANCON, C. Z.

NUMBER	7358.20
REC'D	MAR 7 1911
File No.	REF. TO

February 23rd 1911
act to Editor

W. I. A. MAR 1911

To the Secretary,

Smithsonian Institution

Washington D. C.

Sir: I left Culbra this morning, on my way to the steamer "Taboga," which is to take Mr Maxon and myself to Chiriqui. My plants and other occupations connected with my work have kept me so busy of late, that I have not been able to report on the progress of my investigations or to send my accounts by last mail. But as to the first I understand Mr Maxon has given you the necessary information and I enclose the detail of my expenses up to January 31st.

Our work has gone on steadily with the same good results and our last excursions within the Zone have been particularly interesting.

At the request of Col. C. Mason, Superintendent of the Hospital at Ancon, I have spent several days

ISTHMIAN CANAL COMMISSION

DEPARTMENT OF SANITATION

ANCON HOSPITAL

OFFICE OF SUPERINTENDENT

ANCON, C. Z.

File No.

studying and naming the trees on the Hospital grounds. The majority of these trees are native ones and I was glad of the opportunity of collecting specimens of them, helping at the same time the Superintendent in the fulfilment of his ambition of having a reliable nomenclature for his incipient but already pretty rich "arboretum."

As to the inclosed account, I wish to explain that it contains several items, as bed sheets, weekly fees to waiters and janitor, that do not usually figure in bills of this class. But it should be remembered that we are placed in peculiar circumstances, the details of which were not known beforehand. Had I been placed in the usual way, not bedding would have figured in the bill, but the sum spent for lodgings would have been of much more importance. As to fees, I have found it convenient to follow the custom in vogue, as the food is then better and well served and the room service more diligently done.

As is generally the case in countries where the laboring class is mostly illiterate, I found it

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OFFICE OF SUPERINTENDENT

ANCON, C. Z.

File No.

difficult in most cases to get proper receipts for small expenses relative to help, etc. So I do not enclose the very few vouchers I succeeded in obtaining and of late have not asked for them.

I am ready for any other explanation that may be required and will gladly receive any suggestion that may be offered as to the enclosed bill.

A check for \$200 was received and cashed. Mr. Maxon has also, I believe, \$200 of his own, which he put at my disposal. So I think we have now ample funds for our expedition to Chiriqui and our expenses until we ^{both} return to Washington in April. As I think I explained to Mr. Coville before leaving, I will have to take a flying trip home at the above time, in case my family should leave on April 22^d for Switzerland. I hope to make good use of the opportunity in looking over certain groups of plants at the Nat. Herbarium that are of special interest in my present work.

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DEPARTMENT OF SANITATION

ANCON HOSPITAL

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ANCON, C. Z.

File No.

Up to the present day, I have sent 14 packages of dried specimens, and several small parcels. I left at Culebra a box to be sent in a few days in freight and containing mostly palm specimens. On its arrival, it may be convenient to have Mr. O. F. Cook look through the specimens, direct their preparation both for herbarium specimens and for study, and take a bag of cotton seed which is for his office.

Before closing this letter, I wish to call your attention to another subject. The Smithsonian has published lately a paper on the Panama Indians by Mrs Bell of Colon. I do not own a copy of that paper, but had a furtive look through one brought by Mr Maxon and of which he disposed directly in favor of a friend. I am sorry to say that my impression is that the Smithsonian never had published so far anything so disgracefully plagued with misspellings of local, trital and other names. I have often had

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ANCON HOSPITAL

OFFICE OF SUPERINTENDENT

ANCON, C. Z.

File No.

occasions to regret the carelessness of American publishers with reference to the orthography of words borrowed from Spanish and other foreign languages, but it is the limit to have such a thing occur in papers issued by a scientific institution of world-wide fame. I would suggest that a list of errata be added at the end of the volume containing the paper in question, and if you will have a copy of it sent to me, I shall be glad to help in the preparation of said list.

Respectfully yours

H. Vitter

Enclosures:

Account with sub-vouchers

Receipt for draft

SMITHSONIAN INSTITUTION

MEMORANDUM:

....., 191

MAR 9 - 1911

Dr. Tru -

Is there anything
special you want
to have said to him,
and

Miss Bell & Dr. Hough are
responsible for the names -
Make copy of that part of
this letter - I will ask
Dr. Hough what it means

AK

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

MEMORANDUM

Mch 10, 1911

To Mr. Dorsey:-

I do not know that there is anything of special importance to say to Prof. Pittier, except that he need not be concerned regarding the unusual items in his account.

I should like to have a copy of the paragraph marked in red sent to Mr. P. C. Standley, Div. of Plants.

I should also like to know the outcome of the inquiry regarding the misspelling of names in Mrs. Bell's article on Panama.

Very sincerely

J. A. True

March 11 , 1911.

Dear Professor Pittier:

I have read with much interest your communication of February 23d, and instructions have been given for carrying out your wishes with respect to the various items mentioned.

Your account of expenditures in the form submitted is entirely satisfactory, and I trust you will give yourself no concern regarding the unusual items to which you refer.

I thank you for calling attention to the inaccuracies in the article by Mrs. Bell, and beg to ask if you will be good enough to note in one of the two copies of this paper which are enclosed, such corrections as appear to be necessary, and return it to the Institution.

Trusting that the expedition by yourself and Mr. Maxon to Chiriqui will meet with full success, I am,

Very truly yours,

Secretary.

Professor H. Pittier,

Culebra,

Panama Canal Zone.

INDEXED

March 10, 1911.

For Mr. Standley:

Attached is an extract from a letter received from Professor Pittier, dated February 23, 1911. Will you please see that the directions contained therein are carried out.

Respectfully,

Head Curator of Biology.

Mr. F. C. Standley,

Division of Plants,

U. S. National Museum.

IN FILE

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

REGISTER NUMBER	
REC'D FEB 20 1911	
SMITHSONIAN INSTITUTION	REF. TO

MEMORANDUM

Feb. 20. 1911.

To the Secretary:

In a letter dated Feb. 8, 1911, Prof. Pittier requests a further advance of funds to the amount of \$200.00, in connection with his botanical work in Panama. As it appears from his statements that he has not overrun his monthly allotments, I would respectfully recommend that his request be granted. It is desirable that the money should reach him by Mch. 15th.

Very respectfully

J. W. True

FEB 21 1911
APPROVED

SECRETARY.



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION.

Washington, U.S.A.

UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
ASTROPHYSICAL OBSERVATORY
INTERNATIONAL CATALOGUE OF
SCIENTIFIC LITERATURE

Pittier. N.

REGISTER NUMBER	7343.24 ✓
REC'D FEB 16 1911	
SMITHSONIAN INSTITUTION	REF. TO <i>Long</i>

Culebra C. Z. Febr. 8th 1911.

To the Secretary,
Smithsonian Institution.

ANSWERED
FEB 23 1911

Washington D.C.

Sir: Since my last letter, work has continued under favorable circumstances and with good results. I have sent two more packages (6 & 7) of dried specimens and have two ready to pack. My hand is improving rapidly and does not interfere seriously with my work.

Mr Maxon arrived on the 3^d, as expected and did not lose any time in setting to work. I regret to say that our sailing for Chiriqui had to be delayed until the 23^d inst. on account of all the steamer accommodations having been secured, on the boat leaving on the 10th, by the Panamanian Secretary of State and party. But Mr Maxon will

find plenty to keep him busy on the Zone meanwhile and I can also make good progress in the same region.

I have had no time to prepare my accounts for this mail, but will try to send them by the next one. Including the \$200 that Mr Maxon put at my disposal, I have about \$280 left. Our passages to Chiriqui^{, and return}, including a servant-boy, will cost \$80. We expect to stay 15 to 20 days at Boquete, where our board and lodgings will cost about \$4.00 a day for the three of us. Guides, bearers and other incidental expenses in the exploration of the district surrounding the volcano will cost from \$60 to 80, according to my information. It is then, to believe that on our return here I will not have enough funds left for our projected trip to Darien, so I must ask you to have a new draft of \$200 sent about March 10th, to be at my disposal at the time we come back from Chiriqui. When Mr Maxon is gone and I resume my work on the Zone, the expenses will be much less and the possible excess in the two next months / Petr.

and much) will be easily compensated.

The camera has been duly received and is a welcome addition to my outfit.

Referring again to my work I wish to add that I feel exceedingly gratified to find that I have already secured a large number of the types that have been described first from the Isthmus. Besides, there are numerous additions to the lists of plants hitherto found in Panama and I have been able so far to collect much valuable information on the ecological conditions. On the other hand, I have not been very successful in collecting wood samples and other economic products, but this will be more easily done outside the Zone. Mr Saville kindly offered his cooperation in collecting samples of timber and other forest trees and has given the necessary instructions to his men for the purpose.

Respectfully yours

A. J. Pittier

D 465

Feb. 23, 1911

Dear Sir:

I am very glad to learn from your letter of Feb. 8th of the rapid improvement of your hand, and trust that you will not let your zeal for the work lead you into using it more than you should.

In compliance with your request, a check for \$200.00 is enclosed. Please sign the attached voucher and return it in the accompanying envelope.

I congratulate you heartily on the gratifying progress you have made, notwithstanding the serious difficulties under which you have labored.

Very truly yours,

CHAS. B. WILCOTT:

Secretary

Professor H. Pittier,
Smithsonian Expedition,
Culebra, Canal Zone,
Isthmus of Panama.

Pittier H.



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION,
Washington, U.S.A.

UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
ASTROPHYSICAL OBSERVATORY
INTERNATIONAL CATALOGUE OF
SCIENTIFIC LITERATURE

REGISTER NUMBER	7332.21
REC'D FEB 7 1911	
SMITHSONIAN INSTITUTION	REF. TO Secy Dr. True

Notes
J.W.J.

Culebra C. Z., Jan. 28th 1911.

To the Secretary, Smithsonian Institution

Washington, D.C.

Sir: A further examination of my hand showed that the major finger was badly sprained and the small bones of the wrist partly dislocated. But I am glad to say that to-day I am not much the worse for it and excepting the fact that in order to receive the necessary medical attendance, I have not been able to undertake any protracted expedition, my work has suffered no interruption.

A few days ago I have sent to your address, via New Orleans, 2 more packages (4 & 5) of specimens, and by this same mail you will receive a mailing case containing botanical specimens in alcohol, and another parcel containing entomological objects. These latter should be turned over directly to the division of entomology, to be attended to, and the numbers should be preserved, as they correspond to those in my notes.

The non-arrival of my photographic camera causes me much worry and delays, and meanwhile the vegetation

(⊕) Was held on dock by Pan. R.R. Co. was finally shipped Jan. 28 + Prof Pittier has already been informed. H.R.D.)

passing away or advancing in such a way as to make it often difficult to obtain the same good typical features that pictures taken up to this time would have shown. I have reported the matter to Col. Goethals, and he promised me to have the ~~matter~~ trunk traced all over the Isthmus and to cable to Mr Bawden if necessary.

At the request of Col. Goethals I made a thorough investigation of the vegetation floating on the new lake at Gatun and reported to him as to the possible interference of such vegetation with navigation. Col. Mason, Superintendent of the Hospital at Ancon also asked me to revise the nomenclature of the trees on the Hospital grounds. I expect to undertake this on my return of a three days trip, in dugout, up the Trinidad River.

Both your notes of Jan. 19 have just arrived and good notice made of their contents.

Respectfully

H. Pittier.



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION.

Washington, U.S.A.

REGISTER
NUMBER 7327.20
REC'D JAN 30 1911
SMITHSONIAN REF. TO
UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
ASTROPHYSICAL OBSERVATORY
INTERNATIONAL CATALOGUE OF
SCIENTIFIC LITERATURE

Culebra, Jan. 23^d 1911.

To the Secretary,

Smithsonian Institution

Washington D.C.

Sir: After conferring on the matter with the surgeon who^{is} attending my case and Col. Gaillard, I have decided to send you another cablegram, asking that Mr Maxon would sail on Jan. 28th, as the season is advancing and every week lost is of much importance. The healing of my hand is progressing very favorably and I shall be ready for any kind of outside work by the time Mr Maxon arrives.

Respectfully yours

H. Hittier.

Pittier. V

SMITHSONIAN INSTITUTION

MEMORANDUM:

JAN 25 1911, 191

Me

Mr Rathbun -

At Dr True's

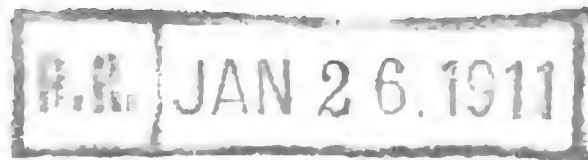
suggestion the
attached cablegram

was sent to Prof.

Pi

Pittier, and

Ma



January 25, 1911.

sent to Professor
Commission:

ist speedy recovery.

Smithsonian.

Pittier. N

Memorandum.

January 25, 1911.

Following cablegram was today sent to Professor
Pittier, through the Isthmian Canal Commission:

Deeply regret your accident. Trust speedy recovery.
Maxon leaves 28th.

Smithsonian.



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION.

Washington, U.S.A.

REGISTER NUMBER	73264
REC'D JAN 30 '911	
SMITHSONIAN INSTITUTION	REF. TO <i>Smith</i>

UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
ASTROPHYSICAL OBSERVATORY
INTERNATIONAL CATALOGUE OF
SCIENTIFIC LITERATURE

Culebra, C. Z., Jan. 22^d 1911.

To the Secretary, Smithsonian Institution

Washington D. C.

ANSWERED
JAN 31 1911

Sir: - At my request, a cablegram was sent you yesterday asking you to delay Mr Maxon's sailing, this of course in the event of his coming having been agreed upon. My petition is the result of an unfortunate accident. On my way back from Porto Bello, I fell in the darkness over the hatch of the tug, and broke one of the metacarp bones of my left hand. While not impossibilitating my work altogether, this handicap me considerably and for at least three weeks, I will not be able to do any extensive and ~~any~~ rough travelling. As Mr. Maxon's help was mainly desired for my projected expeditions to Chiriqui and Darien, it ~~would~~ have been too soon for him to be here on February 1st. Instead, if you so dispose, he should leave New York either on Jan. 28th by S. S. Panama, or at latest on Febr. 4th by the Allianza. The first date would be most satisfactory, as, according to the surgeon attending my case, I shall be again fit for the bush about February 5th.

While I am not ready just at present to give a detailed

account of my expenses up to this date, I can foresee that I will not have much over \$100 left at the end of the month, when I shall send the detail of my expenses. So I must beg you to forward me \$200, either directly or through Mr Maxon.

A few days ago, I mailed a third parcel of plants, which I hope will have been duly received.

The photographic camera has not arrived yet, but it is expected by the first boat.

Mr Goldman has not been successful in contracting a skilled botanical assistant in Costa Rica. The person I had in view (Mr Tonduz) was just about leaving for Guatemala. But there is here a Mr Christopherson, a teacher of Natural History and Mathematics at the Gatun High School, who is very anxious to learn and is presently helping me in exchange for any knowledge I may be able to impart to him. His botanical preparation, ~~as~~ to the tropical flora, is ≈ 0 , so my paying margin is pretty wide and quite sufficient to compensate him for his help in my present predicament, but later I may ask you to allow me to remunerate him out of the funds put ~~at~~ my disposal, if he should decide to stay with me during his three months holidays.

With reference to checks and other documents, I wish to observe that my name is not H. A. Pittier, but simply H. (Henry) Pittier.

My expeditions to Alhajuela and Porto Bello, have been quite rich in botanical results. I have succeeded in collecting a good many of the species first described

from specimens collected on the Isthmus, and a large number of my plants, although not new, are additions to the list of species hitherto known from Panama.

As explained above, I shall not be able to go very far from beaten tracks for the two next weeks or so, but that will not greatly interfere with my collecting, as there are many interesting places to visit along the railway between Colon and Panama. By the end of the month, I hope to have way over 500 numbers, at least 90 % of which are distinct species, and which include about 1500 herbarium sheets. According to my former experience, this is a very satisfactory progress.

Respectfully yours

A. Pittier.

P.S. - This letter cannot possibly reach you in time for Mr Maxon to leave on Jan. 28th. So I shall expect him to arrive on the Alianza, which is due in Colon about Feb. 10th.

A.

7 JWS
January 31 , 1911.

Dear Sir:

I have your letter of January 22, telling of the unfortunate accident which has befallen you and I beg to assure you of my deep regret. I am glad, however, to know that the injury is not as serious as you at first feared, and trust that your recovery may be rapid.

Two parcels of plants have been safely received at the Museum. The third, which you mention as having recently mailed, I presume will arrive in due course.

The photographic camera was shipped immediately upon its receipt from the Department of Agriculture on December 28th, addressed to you c/o of the Canal Commission at Ancon, which was the address given by Mr. Maxon for mailing the linen mounted copy of the map of the Canal Zone. A tracer has been started for the trunk containing this camera, which should have been forwarded by the S.S. "Colon" on January 3rd. It may be possible that it is being held for you at Ancon.

I enclose herewith a check to your order for Two
Hundred Dollars (\$200.00), as requested. Please be good
✓ enough to receipt the attached voucher and return it to the
Institution.

Very truly yours,

CHAS. D. WALCOTT,

Secretary.

Professor H. Pittier,
Smithsonian Expedition,
P. O. Box 47,
Culebra, C. Z.

J

✓ P.S.- A copy of a letter just received from the Agent of
the Panama Railroad Company, explaining the delay in shipping
the camera, is enclosed herewith.

(COPY)

PANAMA RAILROAD COMPANY

24 State Street,

New York, Jan. 31st, 1911.

Mr. H. W. Dorsey, Chief Clerk,
Smithsonian Institute,
Washington, D. C.

Dear Sir:

I have your letter of Yesterday in regard to a small trunk belonging to Professor H. Pittier.

In reply I beg to say that this trunk left New York on our S.S. "Panama" last Saturday the 28th instant having been inadvertently held on our dock at foot of West 27th Street, this City.

We have cabled the Isthmus that the trunk is on the way and will be due there the 3rd of February A.M.

Trusting Mr. Pittier may not have been inconvenienced by the delay,

Yours truly,

C.C. van Riper

Passenger Agent.

JWD

Pittier &

January 19, 1911.

Dear Sir:

With further reference to your letter of January 1st, and my reply of the 11th, I now take pleasure in informing you that Mr. W. R. Maxon has been detailed for about two months as your assistant in connection with the work of the Biological Survey of the Canal Zone. Mr. Maxon has been directed to proceed to the Isthmus on the "Panama", sailing from New York on January 28th next, and to report to you on his arrival.

An advance of \$250.00 has been made to Mr. Maxon to cover his expenses, this amount being in addition to the allotment made for your own investigations as stated in my letter of December 19th last.

Very respectfully yours,

CHAS. D. WALCOTT

Secretary.

Professor H. Pittier,

P. O. Box 47,

Culebra, Canal Zone.

RECEIVED

8WJ

Pittier H.

Enclosed
Copy
3/17.9 and
Receipt papers

January 19, 1911.

Dear Sir:

The Institution is in receipt, of from the Department of State, of a copy of a communication addressed to the American Charge d'Affaires at Panama, by the Minister of Foreign Relations of that Republic, in which it is requested on the part of the Panaman Government that the members of the expedition extend their researches into the Republic of Panama. I have today written to the Secretary of State expressing the Institution's appreciation of the courtesy of the Government of Panama in directing its officials to facilitate in every way possible the work of the expedition, and stating that the desire of the Government of Panama that the investigations of the party be extended into that Republic, would be carried out as far as practicable. I shall be glad, therefore, to have you extend your investigations into Panama, so far as you may find it practicable to do so in the period mentioned and under the allotment stated in my letter of December 19th.

Very respectfully yours,

CHAS. D. WILCOTT,
Secretary.

Professor H. Pittier,
P.O. Box 47,
Culebra, Canal Zone.

8. 263
January 11, 1911.

Dear Sir:

I have your letter of January 1st, and am very glad to know that the Isthmian people, both officially and privately, are giving such friendly assistance to you in your work. I have written to Colonel Goethals thanking him for his courtesy to you and to the other members of the party.

I have also read with much interest your statement as to the opportunities for collecting. Certainly the field appears to be a most promising one and your request for the detail of Mr. Maxon will be given prompt consideration.

Mr. Dorsey tells me that the loose leaf binder and sheets for it and also the glasses which Mr. Maxon brought in were sent by mail this morning, so that they should come down from New York on the steamer leaving Thursday afternoon.

If I can at any time be of any assistance to you in

this work, I beg that you will not fail to advise me of it.

Very respectfully yours,

CHAS. D. WALCOTT,

Secretary.

Professor H. Pittier,

P. O. Box 47,

Culebra, Canal Zone.

SMITHSONIAN INSTITUTION

MEMORANDUM

Jan. 10, 1911.

For Dr. True,

The Secretary wishes to have acknowledgments sent to the four letters received from the Smithsonian Panama Expedition. A draft of reply to Messrs. Hildebrand, Meek and Goldman is attached. I have not prepared a reply to Prof. Pittier, as I do not know what action on his request for the detail of Mr. Maxon will be taken.

Respectfully,

H. W. Hensley

Chief Clerk.

To Mr. Hensley:

I should prepare a letter to Prof. Pittier on similar lines with the others, and add that the matter of the detail of Mr. Maxon will receive prompt consideration. (As a matter of fact, I have Mr. Rathbun's assent to this detail, but Mr. Coville wants to consider various aspects of the case before recommending it. I expect to hear from him in two or three days) JWH

Pittier H. ✓



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION,
Washington, U.S.A.

UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
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SCIENTIFIC LITERATURE

REGISTER NUMBER	73/3,16
REC'D JAN 18 1911	
SMITHSONIAN MUSEUM	REF. TO Pittier

Culebra C. Z., Jan. 9th 1911.

To the Secretary, Smithsonian Institution
Washington D.C.

Sir:

On second thought, I find it advisable to send my plants as soon as they are dry, instead of storing them here until I have enough to fill a box. I have just mailed my first instalment, consisting of two packages. In Washington, they can be easily sheltered from insects and humidity. I beg to suggest that these plants are kept together until I can attend to their preparation for the mounting. They do not even need to be unpacked unless you so desire, as they are thoroughly dry.

I have begun to extend my survey to some distance from the canal works and am going to-morrow to Olajuela, up the Chagres and outside the Zone.

Respectfully
H. Pittier.

SMITHSONIAN INSTITUTION

UNITED STATES NATIONAL MUSEUM

Panama

MEMORANDUM

Jan. 19. 1911

To Mr. Morsey:

As this is the first consignment of specimens from the Panama Survey, I think it is important that the manner of recording it and disposing of it should be decided upon. I presume that the Institution will receive ~~it~~ ^{all the material collected} and turn it over to the National Museum, to keep permanently, or to hold until the persons who are to study it are ready to begin work. I do not see any other way in which a complete record can be kept. If this course is adopted, it would be for Mr. Rathbun to decide, I presume, how many accessions should be made, that is, whether each lot of plants received should constitute one accession, or whether all plants should have the same accession num-

her. Probably the former method would be preferable, though somewhat cumbersome, especially if there should be many consignments.

JW True

Feb. 24, 1911.

To Mr. Miller:

I have to request that you will receive from the Registrar all packages containing zoological specimens collected by the Smithsonian Biological Survey of Panama, prepare all the necessary accession-memoranda, and see that the different classes of specimens are sent to the several divisions to which they belong accompanied by accession-cards. The whole of any lot of material received on a given day by the Registrar and sent to you should constitute one accession.

I will ask you to give personal attention to the matter of obtaining accession cards from the Registrar promptly, and sending each class of specimens with a card to the proper division. It may be necessary in some cases to send perishable material to the division in advance of the receipt of accession cards. In such instances, a note should be made of the transaction, and cards sent as soon as

practicable.

I understand that the insects cannot be counted until the specimens have been relaxed. It will be impossible for you, therefore, to indicate on the memorandum to the Registrar the number of specimens in the various consignments. You will probably be only able to give the total of packages, but in that case any serial numbers or letters which they bear should be placed on the memorandum.

Very sincerely,

Head Curator of Biology.

Feb. 24, 1911.

To the Registrar:

I have to request that you will send all zoological specimens received from the Smithsonian Biological Survey of Panama to Mr. G. S. Miller jr., Curator of Mammals, who will prepare accession memoranda, receive accession cards, and distribute the specimens to the several divisions to which they belong.

Very sincerely,

Head Curator of Biology.

Permanent address.

H. Pittier,
P. O. Box 47

Culebra C. Z.

Panama

U. S. DEPARTMENT OF AGRICULTURE,
BUREAU OF PLANT INDUSTRY,
BIONOMIC INVESTIGATIONS.



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION,
Washington, U.S.A.

UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
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INTERNATIONAL CATALOGUE OF
SCIENTIFIC LITERATURE

Pittet N. ✓

REGISTER NUMBER	7305.1
REC'D JAN 10 1911	
SMITHSONIAN INSTITUTION	REF. TO Jelly B. H. H.

Culebra, C. Z., Panama, Jan. 1st 1911.

To the Secretary.

Smithsonian Institution,

Washington D.C.

ANSWERED
JAN 11 1911

Sir:

In compliance with your instructions, I beg to report my arrival at Colon, and subsequently at Culebra, where the Military authorities of the Zone have their headquarters, on December 28th past.

After mature consideration of the conditions, I asked and obtained to be located permanently at Culebra. Besides affording an easy communication with the Offices that may help in my work, this town, situated on the divide, is the healthiest of the Zone. Its climate is relatively dry, what will lessen the work of drying specimens. Any point on the railroad between Colon and Panama can be easily visited in the day, leaving here in the morning and returning the same day.

All my requests as to quarters, free transportation, etc., have been met with the greatest courtesy by Col. Goethals.



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION.

Washington, U.S.A.

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and every person I have come in contact with, either in official or private capacity, has shown me a kindness for which I am grateful, and eager desire to help in the fulfilment of my mission.

My installation was completed Friday night and yesterday, Dec. 31st 1910, I commenced collecting. At the very start, I had to convince myself of the impossibility of coping single handed with the profusion of plants flowering during the first months of the "verano," or dry season. Having walked about one mile to Rio Grande, I stopped at the first plant that interested me, and there, without moving my press and within a radius of less than fifty meters, I collected eighty-four species in full blossom. And many more were in sight!

A little help would then be very desirable, at least during the blooming season and I hope it will be possible for Mr Maxon to come for a few weeks to collect ferns and other cryptogams, which otherwise ^{would} necessarily be neglected, even though they constitute a very important percentage of the flora.

I have as yet no certainty as to obtaining one of



ALL CORRESPONDENCE
SHOULD BE ADDRESSED
TO THE SECRETARY

SMITHSONIAN INSTITUTION.

Washington, U.S.A.

UNITED STATES NATIONAL MUSEUM
INTERNATIONAL EXCHANGES
BUREAU OF AMERICAN ETHNOLOGY
NATIONAL ZOOLOGICAL PARK
ASTROPHYSICAL OBSERVATORY
INTERNATIONAL CATALOGUE OF
SCIENTIFIC LITERATURE

my former assistants from Costa Rica. When informed of the high price (\$12) of a passage from Colon to Costa Rica, I now longer felt justified in taking the trip, inasmuch as Mr Goldman had to go on similar errand. So I asked him to try and make satisfactory arrangements and to eventually bring me the assistant in question.

Through Mr Maxon, I request the sending of a few supplies forgotten in the preparation of my outfit.

I wish to add that the prospects of collecting ~~in~~ the Zone itself many of the characteristic and more interesting representatives of the Panamanian flora are small. Most vegetation seen along the railroad is secondary and partly adventitious growth. It will necessary to go to more remote districts to study real primeval conditions and I have already projected trips to Chepo, Yavisa, Nombre de Dios, Chiriqui, etc.

This is all I have to report for the present.

Very respectfully

H. Pittier

Panama Canal Survey

Pittier H.

December 28, 1910.

Dear Sir:

I am authorized to inform you that the small trunk containing your camera, about which you spoke before leaving, was received at the Institution today from the Department of Agriculture. It was immediately shipped by express to the pier of the Panama Railroad Steamship Line, consigned to you as below, and the Freight Agent of the Panama Railroad Company, at New York, was requested to have it transported per SS. "Advance" and the Panama Railroad Company, free of charge.

Very respectfully yours,

W. W. DODSON

Chief Clerk.

Professor H. Pittier,

Smithsonian Expedition,

Care of Canal Commission,

Ancon, Canal Zone.

Copy.

Culebra, C.Z. Panama
(P.O.B.47).

My dear Maxon:

There is a mail for U. S. tomorrow, the first one, I understand, since our arrival. Last evening, I wrote my first report to the Secretary, Smithsonian Inst. and tried to make it as plain as possible in a few words that your coming for a few weeks would greatly help my work.

The blooming season has just started on the Pacific side, and I could not possibly attend to the harvest all by myself. I had my first experience on the 31st when 84 species were collected in a radius of less than 50 m., without taking everything. When in Washington I wanted you to come so as to have a few good collecting days in your company. Now I realize that your coming is of immense importance for the furthering of my work, if this has to be accomplished in the next 12 months. A skilled collector as you are, coming just at the critical time, i.e. February and March, will do more toward this end, than any one of less ability during the whole year.

I am not at all sure about my getting Tonduz or Biolley's son as permanent assistant.

* * * * *

As to arrangements here, everything has been very nice. I have for the present 2 rooms on the top floor (3d) of the hotel, which I hope to exchange later for a whole house. Not that I intend to remain here altogether. There is little to do between Colon and Panama, as almost everything is secondary growth and I intend to make trips to several outlying districts during this month.

Please try to be here by Feb. 1st. Let me know one week in advance of your arrival, so that I can get a pass and avoid for you all the little annoyances we have been submitted to on our arrival at Colon.

Bring credentials as we did: they seem to be useful. You will also need your sheets, pillow-cases, towels, blanket, etc. The I. C. C. gives the rest. Meals cost 30 ¢ each and are very good, at least here.

* * * * *

(signed) H. Pittier.

JWJ
Pitts H.
December 19 , 1910.

Dear Sir:

In a letter from the Secretary of Agriculture, dated December 2, you are designated as a member of the party to be sent out by the Smithsonian Institution to make a biological survey of the Panama Canal Zone, and it is understood that you will leave New York on the steamship "Colon" of the Panama Railroad Company, on Thursday, December 22, next. A letter was written on December 16 to Capt. F. C. Boggs, Chief of Office of the Isthmian Canal Commission, requesting him to make the necessary arrangements for your accommodation on that steamer, and to furnish you with a letter of identification in order that you may obtain free transportation from New York to Cristobal,

I will request you to report to me your arrival in the Canal Zone and also to keep me posted concerning any business matters of importance that may arise during your connection with the expedition.

In accordance with a recommendation of Dr. F. V. Coville of the Bureau of Plant Industry, an allotment has been made to cover your travelling and incidental expenses, including hire of assistants, for twelve months, to an amount not exceeding Two Hundred Dollars (\$200.00) per month, and you will be reimbursed for such expenses on the presentation of the customary itemized accounts, accompanied by receipts for important items, so far as practicable. A check to your order for Two Hundred and Fifty Dollars (\$250.00) is sent herewith as an advance for these expenses. It is desired that you will submit your accounts quarterly, or at more frequent intervals.

Your equipment has been forwarded by freight to Mr. H. I. Bawden, Terminal Superintendent, Panama Railroad and Steamship Co., Pier Foot of West 27th Street, New York City, consigned as follows:

Smithsonian Expedition,
Cristobal, Canal Zone,
Per S. S. "Colon".
For H. A. Pittier.

I will request you to call for it upon reaching Cristobal.

All collections that may be made by the expedition, other than those forwarded by mail to the Institution, should be addressed "Smithsonian Institution, c/o Collector of Customs, Port of New York".

Enclosed you will find a letter of introduction to the friends of this Institution, bespeaking for you such assistance and courtesies as may be possible in connection

with your investigations as a member of this expedition. The following papers are also attached for your information and guidance:

Copy of a letter from the Secretary of State, informing me that the Panama Government has been notified of the sending out of this expedition by the Institution, and of the probability of the extension of the investigations of its members into the Republic of Panama; - and

Copy of a letter from Captain F. C. Boggs, Chief of Office of the Isthmian Canal Commission, stating that free transportation has been authorized for both the members of the expedition and their equipment on the Panama Railroad and Steamship Line.

With the hope that your labors as a member of this expedition will prove agreeable to you, and with my earnest wishes that they may be attended with every success, I am,

Very respectfully yours,

CHAS D WALCOTT.

Secretary.

Professor H. A. Pittier,

Bureau of Plant Industry,

U. S. Department of Agriculture,

Washington, D. C.

just
1208
December 19 , 1910.

To the Friends
of the Smithsonian Institution:

I take pleasure in introducing to you the bearer of this letter, Professor H. A. Pittier, of the Bureau of Plant Industry, Department of Agriculture, who is a member of the Expedition sent out by the Smithsonian Institution to make a Biological Survey of the Panama Canal Zone.

Any assistance which you may find it possible to give Professor Pittier in the prosecution of his work, and any courtesies extended to him, will be highly appreciated by this Institution.

Seal

Secretary.